WINLAND
ELECTRONICS, INC.

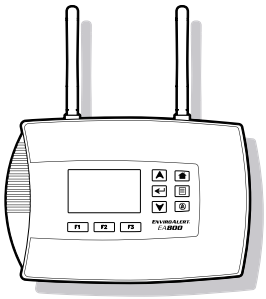
ENVIROALERT EA800

ENVIROALERT EA800-ip

QUICK START GUIDE

This guide provides basic setup instructions for the EnviroAlert EA800 and EA800-ip Critical Condition Monitoring System and associated sensors. Installers should refer to the Installation Manual (found online at www.winland.com) for complete instructions and specifications, and to become familiar with the many features provided by the EA800. The EA800 allows connection of up to 4 wired and 4 wireless sensors.

To use the EA800-ip's advanced features, set up an account at www.ea800ip.com. Since the EA800-ip utilizes a cloud computing architecture, no client software is required.



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⚠ CAUTION

READ THE INSTALLATION/OWNER'S MANUAL FOR COMPLETE INSTRUCTIONS.

Installation/Owner's Manual can be found online at www.winland.com

- All power terminals must be connected to a Class 2 power limited circuit complying with National Electrical Code NFPA 70, Article 725. Where required, this equipment is to be isolated from the main supply by a limited power source as specified in EN60950.
- Batteries shall not cause explosion or produce a fire hazard as a result of excessive charge or discharge.
- Ensure all wiring for wired sensor connections is done before powering on or programming the EA800 console.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

SPECIFICATIONS

EA800 Console Input Voltage	11 to 26VDC @ ≤ 500mA current draw
Wireless Sensor Input Voltage (EA-WMFS, EA-WTS, EA-WHS)	12VDC @ ≤ 100mA current draw via 2.1 mm barrel plug, center positive **OR** 2xAA Alkaline Batteries (1.5V Cell)
EA800 Console Auxiliary Output Voltage	Equivalent to DC Input Voltage used: 11 to 26VDC. (Maximum output current 0.5A).
Environmental Operating Range (EA800, EA-WMFS, EA-WTS, EA-WHS)	Temperature: 0°C to 50°C (32°F to 122°F). Not for installation inside coolers or freezers. Humidity: 5% to 95% RH, non-condensing.
Ambient Environmental Quality	Indoor use intended, non-corrosive environment.
Relay Contact Ratings	Max 30VDC @ 1 Amp, resistive
EA800 Real-Time Clock Battery	CR2032 (3V Cell)
Ethernet (EA800-ip only)	10/100BASE-TX/FX; fully compliant to IEEE 802.3u standard

INSTALLATION OVERVIEW

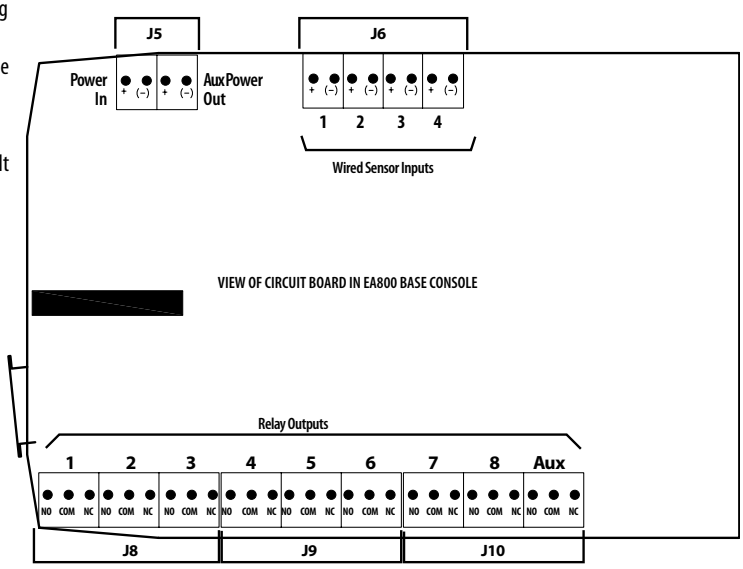
1. Installing Base Console

⚠ CAUTION

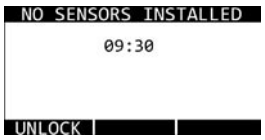
Do not connect or disconnect power, sensor, or alarm wiring while power is applied. Connecting and disconnecting the EA800 base console with power connected may damage the base console or result in improper or unreliable operation.

Connection of unsuitable loads to this connection may damage the power supply and EA800 base console, or result in improper or unreliable operation.

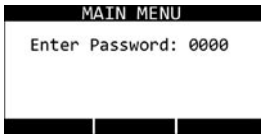
Using a terminal block adapter, connect power supply **+** and **-** leads to **POWER IN** (**+**) and (**-**) on **J5**. Observe proper polarity.
EA800 Input Voltage: 11 to 26VDC at ≤ 500mA
Note: The input voltage specification does not include requirements for loads connected to Aux Power Out.
If **Aux Power Out** is to be used, connect **+** and **-** leads to **AUX POWER OUT** (**+**) and (**-**) on **J5** using a terminal block adapter. When base console is powered, a 30-minute timer starts. The console will alarm after this timer expires unless one or more sensors are installed.



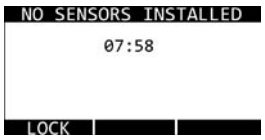
2. Unlocking/Locking Base Console



Press **F1** to unlock base console. The default password is **0800**.
See Installation/Owner's Manual to customize password.



To enter password, press **F3** (**Next**) to move the cursor one digit to the right.
Use the arrow keys to change the numeric value to **0800**, then press ↵ to enter.
The base console is now unlocked.



After completion of steps 3 - 5, press **F1** to lock the base console, if desired.
The base console locks automatically if no keys are pressed within 30 minutes.

3. Setting Date and Time

To set time and date format: The defaults are 24-hour clock (military time) and mm/dd/yyyy format. To change to 12-hour clock or dd/mm/yyyy format if desired, go to **MAIN MENU**, select **System**, ↵ ; select **Configuration**, ↵ ; select **Date Format** or **Time Format**, ↵ ; then select the preferred configuration. Press **F3** (**OK**) to set.
To set time and date: go to **MAIN MENU**, select **System**, ↵ ; select **Set Date** or **Set Time**, ↵ ; follow menu prompts and use **PREV** and **NEXT** soft keys to select the desired values. Press **F3** (**OK**) to set.

4. Adding Sensors

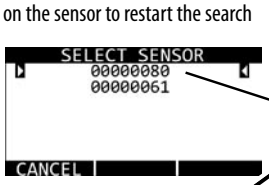
Press **MENU** key, use arrow keys to select **Sensors** and press ↵ .
Select **Add New Sensor**, ↵ .
Follow procedure **4a** if adding a hardwired sensor and procedure **4b** if adding a wireless sensor.

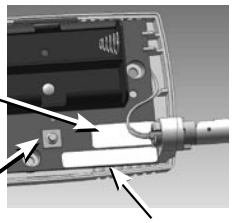
4.a Adding Wired Sensors

Select **Wired**, ↵ . Select the type of sensor being connected. You can opt to select from a list of **Common** names or create a **Custom** name (16 characters or less). After assigning a name, continue to follow the on-screen prompts to complete the programming of your sensor. See Installation/Owner's Manual for details. Repeat setup for each additional hardwired sensor. The steps vary depending on the sensor type being added. **Note:** For detailed information on configuring a 4-20mA sensor, please refer to the Installation/Owner's Manual.

4.b Adding Wireless Sensors

Remove cover from wireless sensors until setup is complete. With the wireless sensor unmounted and located near the base console, apply power to the sensor using remote power supply or 2 AA batteries before starting setup. It is recommended that power is applied to one sensor at a time, and that the setup is completed for that sensor before adding subsequent wireless sensors.
Select **Wireless**, press ↵ . The base console searches for a connection with the wireless sensor. This may take 1-2 minutes.
Note: Press the Reset Button on the sensor to restart the search process if necessary. Verify that the number shown on the base console screen matches the number on the sensor's PC board. Press ↵ . If the list of number(s) on the screen does not contain the number found on the sensor's PC board, press **F1** (**Cancel**) to continue the search process. Select the output relay to which the wireless sensor is to be assigned, then press ↵ . Continue the setup based upon the type of wireless sensor being added.





Sensor Model Number
Example: EA-WTS = Wireless Temperature Sensor

Wireless Multi-Function Sensor (EA-WMFS)

Wireless multi-function sensors provide a wireless transmitter for connection to a wired sensor. Select the type of sensor to be connected to the wireless multi-function sensor, then press ↵ . Assign a **Common** name or **Custom** name to the sensor, and continue to follow on-screen prompts to complete the setup.
Note: Custom names are limited to 16 characters for all sensors.
Note: The Wireless Multi-Function Sensor (EA-WMFS) supports the following sensor types:
- Blue Temperature Probe (TEMP-L-W and TEMP-L-S)
- Red Temperature Probe (TEMP-H-W and TEMP-H-S)
- White Temperature Probe (TEMP-UL-S)
- Supervised WaterBug® Sensor (W-S-S and W-UC-S)
- Contact Sensors (N.O. and N.C.)

Note: Not for use with the HA-III+ or 4-20mA sensors. These sensors can only be configured as wired.

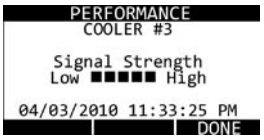
Wireless Temperature Sensor (EA-WTS)

Assign a **Common** name or **Custom** name to the sensor, and continue to follow on-screen prompts to complete the setup.
Note: Custom names are limited to 16 characters for all sensors.

Wireless Humidity Sensor (EA-WHS)

Assign a **Common** name or **Custom** name to the sensor, and continue to follow on-screen prompts to complete the setup.
Note: Custom names are limited to 16 characters for all sensors.
Repeat setup for each additional wireless sensor. The steps will vary depending on the type of sensor being added.

Verifying Signal Strength



After temporarily mounting the wireless sensors in the desired location, verify the signal strength at the base console by pressing **MENU** ▤, select **Sensors**, ↵ ; select **Performance**, ↵ ; then select the sensor to be checked, ↵ . It may take as long as 30 seconds to acquire the current signal strength.
If **No Data** is displayed in place of bars, it indicates that recent signal strength information has not been received. If this persists for 1-2 minutes without displaying any performance bars, it is a strong indication that your sensor is placed out of range with the base console.
If fewer than two bars are shown, it is recommended that the sensor be relocated to obtain a better signal. Refer to the instruction sheet included with the wireless sensor for details on ensuring optimum signal strength.

5. Advanced Settings

Refer to the Installation/Owner's Manual found online at www.winland.com for configuring the following advanced EA800 settings:

- Configuring the Relays
- Pausing Monitoring and Cancelling Pause
- Replacing a Sensor
- Editing Sensor Parameters
- Changing Sensor Data Collection Frequency
- Changing the Buzzer Setting
- Clearing the Alarm/Sensor Logs
- Saving/Loading Configuration Settings
- Exporting the Stored Logs